

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/07200

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C07D471/04, A61K31/519, A61K31/5377, A61K31/55, A61P3/10, A61P11/02, A61P11/06, A61P13/10, A61P17/00, A61P17/04, A61P17/06, A61P19/02, A61P25/04, A61P27/14, A61P29/00,

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C07D471/04, A61K31/519, A61K31/5377, A61K31/55, A61P3/10, A61P11/02, A61P11/06, A61P13/10, A61P17/00, A61P17/04, A61P17/06, A61P19/02, A61P25/04, A61P27/14, A61P29/00,

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
CA (STN)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 01/29000 A2 (DU PONT PHARMACEUTICALS CO.), 26 April, 2001 (26.04.01), Claims; field of the invention & AU 1201101 A & EP 1220840 A & JP 2003-512355 A	1-38
A	WO 02/22604 A1 (VERTEX PHARMACEUTICALS, INC.), 21 March, 2002 (21.03.02), & AU 2001094558 A & US 2003/55044 A1 & US 2003/64981 A1 & EP 1317450 A & NO 2003001190 A	1-38
A	WO 02/22602 A2 (VERTEX PHARMACEUTICALS, INC.), 21 March, 2002 (21.03.02), & AU 2001096875 A & US 2003/55044 A1 & US 2003/64981 A1 & EP 1318814 A	1-38

☒ Further documents are listed in the continuation of Box C.

☐ See patent family annex.

\* Special categories of cited documents:  
 "A" document defining the general state of the art which is not considered to be of particular relevance  
 "E" earlier document but published on or after the international filing date  
 "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)  
 "O" document referring to an oral disclosure, use, exhibition or other means  
 "P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention  
 "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone  
 "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art  
 "&" document member of the same patent family

Date of the actual completion of the international search  
09 September, 2003 (09.09.03)

Date of mailing of the international search report  
30 September, 2003 (30.09.03)

Name and mailing address of the ISA/  
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP03/07200

**C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, A	WO 03/049739 A1 . (VERTEX PHARMACEUTICALS, INC.), 19 June, 2003 (19.06.03), (Family: none)	1-38

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**Box I Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

- 1.
- ☒
- Claims Nos.: 39-43

because they relate to subject matter not required to be searched by this Authority, namely:

The inventions as set forth in claims 39 to 43 pertain to methods for treatment of the human body by therapy.

- 2.
- ☐
- Claims Nos.:

because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:

- 3.
- ☐
- Claims Nos.:

because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box II Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

Although the compounds of the general formula (I) as described in claim 1 have a common structural part, there had been publicly known compounds having such a structural part, for example, RN68639-14-5, RN32160-91-1, RN23935-87-7, RN24051-08-9, etc. Thus, this structural part cannot be regarded as an important chemical structural factor. There is no other common matter among these inventions which is considered as a special technical feature in the meaning as described in the second sentence of PCT Rule 13.2. Such being the case, these groups of inventions cannot be considered as relating to a group of inventions so linked as to form a single general inventive concept.

- 1.
- ☐
- As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.

- 2.
- ☐
- As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.

- 3.
- ☐
- As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:

- 4.
- ☒
- No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Namely, it is restricted to the inventions as set forth in claims 1 to 38 relating to the compounds of the general formula given in claim 1 wherein  $R^2$  is (i) and  $R^3$  and A are (a).

Remark on Protest ☐ The additional search fees were accompanied by the applicant's protest.☐ No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

International application No.

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Continuation of A. CLASSIFICATION OF SUBJECT MATTER  
(International Patent Classification (IPC))

Int.Cl<sup>7</sup> A61P31/10, A61P31/14, A61P35/00, A61P35/02, A61P37/02,  
A61P37/06, A61P37/08, A61P43/00, C07D487/04

(According to International Patent Classification (IPC) or to both  
national classification and IPC)

Continuation of B. FIELDS SEARCHED

Minimum Documentation Searched (International Patent Classification  
(IPC))

Int.Cl<sup>7</sup> A61P31/10, A61P31/14, A61P35/00, A61P35/02, A61P37/02,  
A61P37/06, A61P37/08, A61P43/00, C07D487/04

Minimum documentation searched (classification system followed by  
classification symbols)

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